

CR-AVE Flight Summary  
9 January 2006  
*All times given in CST*

**General Information**

**Flight date-** 9 January 2006

**Flight description** – Flight 1 CR-AVE *in situ* payload checkout

**Flight duration** - 4.1 hours

**Crew** – Scott Reagan, Joe Gerky

**Instruments flown (23):** 2DS, ACAM, ALIAS, Argus, CAFS, CAPS, CIMS, CO<sub>2</sub>, FCAS, Frostpoint, ICOS, JLH, MACS, MMS, MTP, NMASS, Ozone, PALMS, PANTHER, PT, SP2, WAS, Water Vapor

**Flight Log**

<b>Engine Start</b>	12:40	<b>Takeoff</b>	13:00	<b>Approach</b>	16:22
<b>Data Rec On</b>	12:48	<b>Begin Descent</b>	16:00	<b>Landing</b>	17:05

**Gear extensions/retractions**

<b>Gear Up</b>	13:00					
<b>Gear Down</b>	16:00					

**Weather Observations**

Climb-Out:

- The sky was clear on climb-out.

Descent:

- On approach to Ellington, we passed through a cloud layer from 17.5 kft down to 15.1 kft. the PALMS display indicated high numbers, so I switched to cloud setting from 16:30 to 16:52.

**Flight Profile**

We flew the profile as planned. We climbed to waypoint 2, reaching 43 kft at 13:23, and cruised at that altitude until we reached waypoint 4 at 14:16. At that time, we initiated a climb to 54.7 kft. At 14:44, between waypoints 5 and 6, we initiated a box turn at 54.7 kft, and then proceeded southbound towards Ellington. We descended to 45 kft at 14:52. At 15:25, we climbed up to 54.7 kft. We began our descent back into Ellington at 16:00.

**Instrument Notes**

- The MMS pitch and yaw maneuvers were initiated at 13:26 (45 kft).
- There were no unexpected fail lights during the flight.